

This question paper contains **3** printed pages]

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S. No. of Question Paper : **12764**

Unique Paper Code : **42237913**

Name of the Paper : **DSE-Aquatic Biology**

Name of the Course : **B.Sc. (H) Zoology/Life Science**

Semester : **VI (CBCS-LOCF)**

Duration : **3 Hours**

Maximum Marks : **75**

(Write your Roll No. on the top immediately on receipt of this question paper.)

Attempt *five* questions in all.

Question No. 1 is compulsory.

Draw diagrams wherever necessary.

1. (a) Define the following :

1×4=4

(i) Coral reef

(ii) Continental shelf

(iii) Benthic zone

(iv) Eutrophication

P.T.O.

(b) Differentiate between the following :

2×4=8

- (i) Estuaries and Intertidal zones
- (ii) Lentic and lotic habitats
- (iii) Limnology and ichthyology
- (iv) Shallow water and deep-sea habitats.

(c) Define and write the significance of the following :

2×5=10

- (i) BOD
- (ii) Induced breeding
- (iii) Sewage treatment
- (iv) Thermal stratification
- (v) Water resource management.

(d) Fill in the blanks :

1×5=5

- (i) The open ocean area away from the coast is known as the zone.
- (ii) The deeper cold layer of a stratified lake is called the
- (iii) The mouth of a river where it meets the sea often forms an
- (iv) The completely dark layer of the ocean is called the zone.
- (v) Oil spills primarily affect the layer of aquatic ecosystems.

2. Discuss the characteristics of lentic and lotic freshwater systems. How do temperature, light, and dissolved oxygen affect the organisms living in them?
6+6=12
3. (a) What is coral bleaching ? Write an essay on coral reefs and its significance in marine ecosystem. 7
(b) Discuss the adaptations of hill-stream fishes to fast-flowing water. 5
4. Write about the origin and types of lakes found in India. Describe the physico-chemical parameters of lake. 8+4=12
5. Write an essay on the ecological and commercial importance of seaweeds. 12
6. (a) Explain the process and consequences of eutrophication. 6
(b) Describe the major causes of aquatic pollution and their impacts. 6
7. Write short notes on any *three* of the following : 3×4=12
(a) Physiochemical parameters of lake
(b) Sea weeds
(c) Sewage treatment
(d) Marine habitat destruction.

